# NEO-STB-0004

# Neo-Flash 300 RGB

# User Manual

## Introduction

Thank you for investing in our Neo-Flash series. The Neo-Flash 50 RGB features 132 high power SMD 5050's and is a compact, yet powerful strobe fixture that has been built and designed from the ground up. With correct operation procedures this fixture will provide many years of service to you. Please read this manual before operating to ensure safety and keep a copy for your future reference.

**Note: 1. Do not use the chemical material around the fixture.**

**2. The working temperature must be below +40℃， the humidity must be 0~95％.**

**Indoor use only**

**Cautions:**

1. Please do not link the power when the fixture is in the package;
2. Please do not link the power before the fixture is earth linked.
3. Please do not open the fixture. If you get the problem, please contact the service engineers.
4. Be sure to have the same power input as per the fixture remark.

## Special notice: If you want to link more pieces together, the max load is 4pcs.

## Packing list:

- NEO-STB-0004 NEO-FLASH300 RGB LED Strobe light ---------- 1pc
- User Manual ---------- 1pc
- Power cable ---------- 2pcs

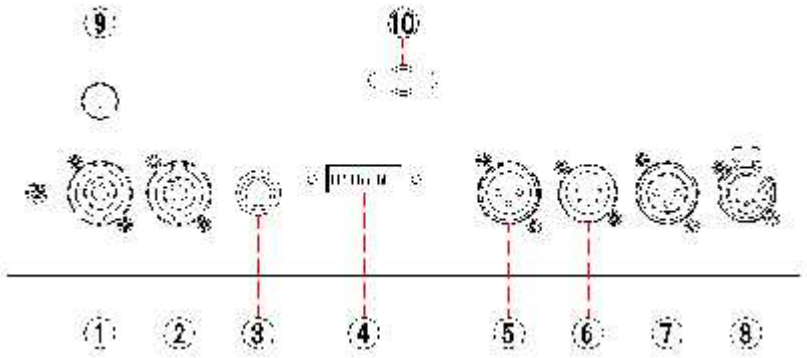
## Technical Specifications:

1. Voltage: 180-264VAC 50Hz or 90-132VAC 60Hz
2. Fuse: 220V 3.15A/250V 或 120V 5A/125V
3. Peak Power: 296W
4. Light Source: 792x5050 RGB LED
5. Working mode: DMX、Auto、Sound、Master/Slave
6. DMX Channel: 22CHs
7. Dimension: L365xW332xH313mm
8. Weight: 9.2 KG

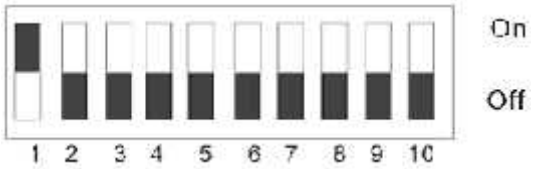
## Operation Manual

**1、 Panel description:**

1. Power Input 2. Power Output 3. MIC 4. DIP SWITCH 5. 3P DMX Input
6. 5P DMX Input 7. 3P DMX Output 8. 5P DMX Output 9. FUSE 10. SAFETY CABLE




**2、 Dip-switch setting**




As per the above photo, switch 1 is "ON", and the rest are at "OFF". Set switch 1"~" switch 10" as "#1"~"#10", When the switch is "ON" , we read it as "1", when the switch is"OFF", we read it as "0". When the"ON" or "OFF" are no use, we read it as "X" (When you switch the switch which is read it as X, there is no function.). If there is no remark, you can also read it as"0"。

**3、Function description**

| Dip switch / Function | #1 | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 |
|---|---|---|---|---|---|---|---|---|---|---|
| DMX Mode | DMX Address #1~9 to set up the DMX address | | | | | | | | | 0 |
| Auto Mode | X | X | X | X | X | X | X | X | 0 | 1 |
| Sound Mode | X | X | X | X | X | X | X | X | 1 | 1 |

#10、#9 and #8 is setting the DMX, Auto and Sound function.

## 1. Auto Mode:

**Speed Chart:**

| Speed | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Speed 1 (Fastest) | 0 | 0 | 0 | | | | | | 0 | 1 |
| Speed 2 | 1 | 0 | 0 | | | | | | 0 | 1 |
| Speed 3 | 0 | 1 | 0 | | | | | | 0 | 1 |
| Speed 4 | 1 | 1 | 0 | | | | | | 0 | 1 |
| Speed 5 | 0 | 0 | 1 | | | | | | 0 | 1 |
| Speed 6 | 1 | 0 | 1 | | | | | | 0 | 1 |
| Speed 7 | 0 | 1 | 1 | | | | | | 0 | 1 |
| Speed 8 (Slowest) | 1 | 1 | 1 | | | | | | 0 | 1 |

At the Auto mode, 1， 2， 3 is to select the strobe speed.

**Time Chart:**

| Light up time（on time） | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Time (Shortest delay) | | | | 0 | 0 | 0 | | | 0 | 1 |
| Time | | | | 1 | 0 | 0 | | | 0 | 1 |
| Time | | | | 0 | 1 | 0 | | | 0 | 1 |
| Time | | | | 1 | 1 | 0 | | | 0 | 1 |
| Time | | | | 0 | 0 | 1 | | | 0 | 1 |
| Time | | | | 1 | 0 | 1 | | | 0 | 1 |
| Time | | | | 0 | 1 | 1 | | | 0 | 1 |
| Time (longest delay) | | | | 1 | 1 | 1 | | | 0 | 1 |

At the Auto mode, 4， 5， 6 is to select the delay time of each strobe.

**Program chart:**

| Program | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Program 1 | | | | | | | 0 | 0 | 0 | 1 |
| Program 2 | | | | | | | 1 | 0 | 0 | 1 |
| Program 3 | | | | | | | 0 | 1 | 0 | 1 |
| Program 4 | | | | | | | 1 | 1 | 0 | 1 |

At the Auto mode, 4， 5， 6 is to select the delay time of each strobe.

## 2. Sound Mode:

| Program | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Program 1 | 0 | 0 | 0 | | | | | | 1 | 1 |
| Program 2 | 1 | 0 | 0 | | | | | | 1 | 1 |
| Program 3 | 0 | 1 | 0 | | | | | | 1 | 1 |
| Program 4 | 1 | 1 | 0 | | | | | | 1 | 1 |
| Program 5 | 0 | 0 | 1 | | | | | | 1 | 1 |
| Program 6 | 1 | 0 | 1 | | | | | | 1 | 1 |
| Program 7 | 0 | 1 | 1 | | | | | | 1 | 1 |
| Program 8 | 1 | 1 | 1 | | | | | | 1 | 1 |

At the sound mode, 1， 2， 3 is to select the program.

| **Light up time（on time）** | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Time (Shortest delay) | | | | 0 | 0 | 0 | | | 1 | 1 |
| Time | | | | 1 | 0 | 0 | | | 1 | 1 |
| Time | | | | 0 | 1 | 0 | | | 1 | 1 |
| Time | | | | 1 | 1 | 0 | | | 1 | 1 |
| Time | | | | 0 | 0 | 1 | | | 1 | 1 |
| Time | | | | 1 | 0 | 1 | | | 1 | 1 |
| Time | | | | 0 | 1 | 1 | | | 1 | 1 |
| Time (longest delay) | | | | 1 | 1 | 1 | | | 1 | 1 |

At the sound mode, 4，5，6 is to select the delay time of each strobe.

### 3. DMX Chart

| DMX | Functions | DMX Value | Description |
|---|---|---|---|
| CH1 | Strobe brightness | 0～255 | Adjust red brightness in the 1st LED panel: 0%～100%. |
| CH2 | Strobe brightness | 0～255 | Adjust green brightness in the 1st LED panel: 0%～100%. |
| CH3 | Strobe brightness | 0～255 | Adjust blue brightness in the 1st LED panel: 0%～100%. |
| CH4 | Strobe brightness | 0～255 | Adjust red brightness in the 2nd LED panel: 0%～100%. |
| CH5 | Strobe brightness | 0～255 | Adjust green brightness in the 2nd LED panel: 0%～100%. |
| CH6 | Strobe brightness | 0～255 | Adjust blue brightness in the 2nd LED panel: 0%～100%. |
| CH7 | Strobe brightness | 0～255 | Adjust red brightness in the 3rd LED panel: 0%～100%. |
| CH8 | Strobe brightness | 0～255 | Adjust green brightness in the 3rd LED panel: 0%～100%. |
| CH9 | Strobe brightness | 0～255 | Adjust blue brightness in the 3rd LED panel: 0%～100%. |
| CH10 | Strobe brightness | 0～255 | Adjust red brightness in the 4th LED panel: 0%～100%. |
| CH11 | Strobe brightness | 0～255 | Adjust green brightness in the 4th LED panel: 0%～100%. |
| CH12 | Strobe brightness | 0～255 | Adjust blue brightness in the 4th LED panel: 0%～100%. |
| CH13 | Strobe brightness | 0～255 | Adjust red brightness in the 5th LED panel: 0%～100%. |
| CH14 | Strobe brightness | 0～255 | Adjust green brightness in the 5th LED panel: 0%～100%. |
| CH15 | Strobe brightness | 0～255 | Adjust blue brightness in the 5th LED panel: 0%～100%. |
| CH16 | Strobe brightness | 0～255 | Adjust red brightness in the 6th LED panel: 0%～100%. |
| CH17 | Strobe brightness | 0～255 | Adjust green brightness in the 6th LED panel: 0%～100%. |
| CH18 | Strobe brightness | 0～255 | Adjust blue brightness in the 6th LED panel: 0%～100%. |
| CH19 | Strobe speed | 0～255 | Adjust the strobe speed: 0%～100%. |
| CH20 | Strobe delay time | 0～255 | Adjust the strobe delay time: 0%～100%. |
| CH21 | Program | 0~7 | CH1~CH11 Control effect |
| | | 8~39 | Program 1 |
| | | 40~79 | Program 2 |
| | | 80~119 | Program 3 |
| | | 120~159 | Program 4 |
| | | 160~199 | Program 5 |
| | | 200~255 | Program 6 |
| CH22 | Speed | 0 | Stop |

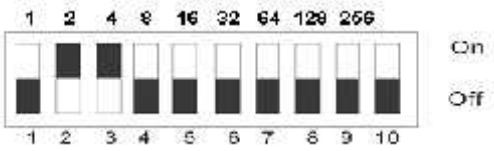
| | | | |
|---|---|---|---|
| | | 1~255 | Speed up |

1). To link the DMX controller and the strobe light with 3-pin XLR cable.

2). At Master/Slave mode, set up 1pc PAR at AUTO or Sound， the others set up at DMX, the fixture will work at Master/Slave mode.

3). At DMX mode, Note: ① dipswitch #1~9 is address code (set up the address at 1~512; ② dipswitch #1~9 is to say all the address are at off, the address is 0， Even it is at DMX mode, no DMX signal reception.

4). DMX Address setting as below:

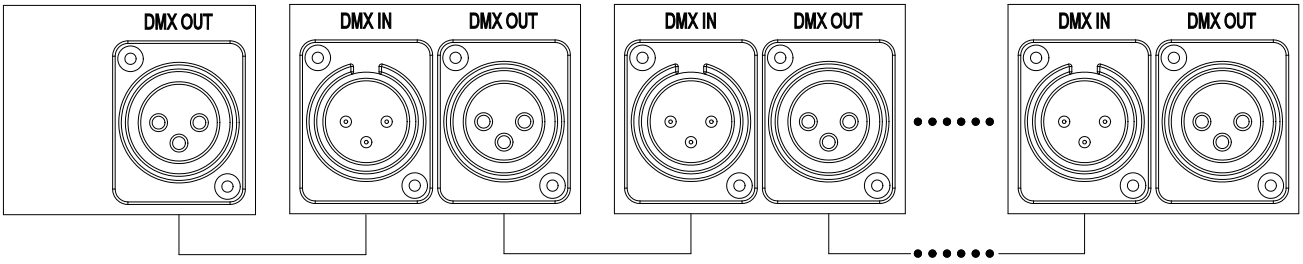



Switch #9 =0;Switch #8 = 0;Switch #7 = 0;Switch #6 = 0; Switch #5 =0;Switch #4 = 0;Switch #4 = 0;Switch #2 = 2; Switch #1 = 0; Value at 0+0+0+0+0+0+4+2+0 = 6, Address is at the value + 1, and the address is 7.

**4、 DMX Linking description**

**DMX linking as below:**

**DMX controller**




**Input/output 3pin connector spec:** Pin1 = Gnd Pin2 = Dmx- Pin3 = Dmx+

## Installation setting

### Hanging installation

This fixture can be use in the flat surface or hanging in the ceiling or truss with the special clamp.

When you hang it, please fix the bracket hole of the fixture with the special clamp. And then use the safety cable to tie up the fixture in the truss of ceiling. Note: the safety cable must be available for 10 times weight of the fixture,

## Trouble shooting

| Problems | Checking list | Trouble shooting |
|---|---|---|
| DMX not responding | If the dipswitch set up correctly. | Ensure the dipswitch settings are correct, number 10 should be set to the "off" position. |
| No power for the unit | Check powercon connect correctly | Insert the powercon and twist It approx 10 degree. It should be "Click" into the position. |
| Strobe turns on/off without control when in DMX. | Check the DMX connection | Ensure your DMX network is terminated at the end of the chain with an XLR termination plug. |
| | Check if connection is incorrect. | Inspect and maintain or replace the signal cable, make sure of the correct connection. And the 1st unit input is connected with DMX controller output |
| | Check DMX address is incorrect. | Set up the DMX address correctly |
| | Check if the DMX connector in 1unit is getting trouble | Connect the unit input with the other unit output one by one. If you cannot find the problem this way, please contact the local service engineer people. |

**Cleaning and maintenance**

We recommend periodic maintenance to make ensure your fixture remains as good as the day you purchased it.

Ensure ventilation points are free of blockages, such as dust, balloons and small children.

Check if the connection is getting loosen or correct regularly to get the safety using.

Check this every month to prevent unit from the overheating. This is crucial to maintain long life on your SMD array.

Clean external housing once a month with a damp cloth, a small amount of household detergent can be used to remove buildup of oils such as glycol from fog machines.

Clean toughened glass with a non scratch cloth and suitable glass cleaner, do not use a hammer.

Do not use solvents or acid/alkaline solutions to clean, doing so will damage the fixture.